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IN THE CLAIMS:

Please reconsider the claims as follows:

1. (original) Apparatus, comprising:
 - a plurality of internet protocol (IP) services aggregation switches for communicating between respective access networks and a core network, each of said IP services aggregation switches communicating with at least one respective user; and
 - a dynamic virtual private network (VPN) manager, for providing customer network management and policy server functions including a user interface enabling remote management of a VPN by a user;
 - said VPN having at least one of a defined quality of service (QoS) parameter, a defined security parameter and a corresponding billing rate, at least one of said QoS parameter and said security parameter being adapted in response to user commands provided to said dynamic VPN manager.
2. (original) The apparatus of claim 1, wherein:
 - said dynamic VPN manager adapts at least one of said IP services aggregation switches to provide at least one of a guaranteed QoS parameter and a guaranteed security parameter to said VPN.
3. (original) The apparatus of claim 1, wherein said IP services aggregation switches communicate with said at least one respective user via a respective enhanced integrated access device (EIAD).
4. (original) The apparatus of claim 1, wherein:
 - said dynamic VPN manager adapts at least one of said enhanced integrated access devices (EIAD) to provide at least one of a guaranteed QoS parameter and a guaranteed security parameter to said VPN.

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5. (original) The apparatus of claim 1, wherein said QoS parameter comprises at least one of a bandwidth parameter, a jitter parameter and a delay parameter.
6. (original) The apparatus of claim 1, wherein said security parameter comprises at least one of an encryption parameter, an authentication parameter and a filtering parameter.
7. (original) The apparatus of claim 1, wherein said VPN supports at least one of an interactive gaming application and a conferencing application.
8. (original) The apparatus of claim 1, wherein:
said dynamic VPN manager is responsive to a user command to establish an application profile for a VPN, said application profile defining at least one of a QoS parameter, a security parameter and a corresponding billing rate for said VPN during at least one time period
said dynamic VPN manager adapting said at least one of a QoS parameter and a security parameter of said VPN according to said application profile.
9. (original) The apparatus of claim 1, wherein a command received from a user comprises a user selection of one of a plurality of VPNs to join.
10. (original) The apparatus of claim 1, wherein a command received from a user comprises a user selection of one of a plurality of applications based on VPNs to join.
11. (original) The apparatus of claim 9, wherein said plurality of VPNs have at least one of respective QoS requirements and security requirements, said QoS and security requirements having corresponding billing rates.

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12. (original) The apparatus of claim 10, wherein said plurality of applications have at least one of respective QoS requirements and security requirements, said QoS and security requirements having corresponding billing rates.

13. (original) The apparatus of claim 1, wherein said dynamic VPN manager comprises:

an enhanced application portal (EAP), for providing said user interface to said VPN user and receiving therefrom VPN administration commands;

a policy server, for communicating configuration parameters to network elements providing said VPN, said network configuration parameters determined according to VPN administration commands and profiles associated with said VPN administration commands; and

a directory server, for storing VPN topology and operational parameters and providing said VPN topology and operational parameters to said policy server and said EAP, said VPN topology and operational parameters being updated by said EAP.

14. (original) The apparatus of claim 13, wherein said dynamic VPN manager further comprises:

at least one element management system (EMS) for managing a plurality of network elements forming said VPN.

15. (original) The apparatus of claim 1, wherein said apparatus is included within an internet service provider (ISP) network including said access networks and said core network, said dynamic VPN manager being included within a data center of said ISP.

16. (original) The apparatus of claim 1, wherein said VPN has associated with it a respective name;

said user being able to perform at least one of a VPN create, VPN modify, VPN store and VPN delete, command using said VPN name;

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said VPN modify command allows said user to modify at least one of said VPN's topology, QoS parameter, and security parameter.

17. (original) The apparatus of claim 16, wherein said VPN is retrieved from storage, activated and deactivated using a corresponding VPN name.
18. (original) A dynamic virtual private network (VPN) manager, comprising:
 - an enhanced application portal (EAP), for providing said user interface to said VPN user and receiving therefrom VPN administration commands;
 - a policy server, for communicating configuration parameters to network elements providing said VPN, said network configuration parameters determined according to VPN administration commands and profiles associated with said VPN administration commands; and
 - a directory server, for storing VPN topology and operational parameters and providing said VPN topology and operational parameters to said policy server and said EAP, said VPN topology and operational parameters being updated by said EAP.
19. (original) The dynamic VPN manager of claim 18, further comprising:
 - at least one element management system (EMS) for managing a plurality of network elements forming said VPN.
20. (original) The dynamic VPN manager of claim 18, wherein a managed VPN has associated with it at least one of a defined quality of service (QoS) parameter, a defined security parameter and corresponding billing rate, at least one of said QoS parameter and said security parameter being adapted in response to said VPN administration commands.
21. (original) The dynamic VPN manager of claim 18, wherein:
 - said dynamic VPN manager is included within a Universal Mobile Telecommunications Services (UMTS) packet transport network, said access

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networks comprising Gateway Generalized Packet Radio Service support nodes (GGSNs), said user accessing said UMTS packet transport network with a communications device nominally assigned to a home GGSN;

said dynamic VPN manager causing communications with said user communication device to be routed through a GGSN geographically proximate said user communications device.

22. (original) The dynamic VPN manager of claim 21, wherein said determination of geographic location is made during an authentication procedure.

23. (original) The dynamic VPN manager of claim 18, wherein:
said apparatus is included within a CDMA-2000 packet transport network, said access networks comprising home agents, said user accessing said CDMA-2000 packet transport network with a communications device nominally assigned to a home agent;

said dynamic VPN manager causing communications with said user communication device to be routed through a home agent geographically proximate said user communications device.

24. (original) The apparatus of claim 23, wherein said determination of geographic location is made during an authentication procedure.

25. (original) A method, comprising:
receiving, from an authorized user, a request to modify a parameter of a virtual private network (VPN);
retrieving a profile associated with said user request; and
providing configuration parameters to at least one network element in response to said user request and said profile associated with said user request, said network element adapted by said configuration parameter to satisfy said parameter of said VPN.

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26. (original) The method of claim 25, wherein said user request is received via an enhanced application portal.
27. (original) The method of claim 25, wherein said parameter to be modified comprises a quality of service (QoS) parameter, said QoS parameter adapting a data flow through a network such that a minimum QoS level is guaranteed to at least a portion of said VPN traversing said network.
28. (original) The method of claim 25, wherein:
said parameter to be modified comprises a security parameter, said security parameter adapting a data flow through a network such that a minimum security level is guaranteed to at least a portion of said VPN traversing said network.
29. (original) The method of claim 27, wherein said QoS parameter comprises at least one of a bandwidth parameter, a jitter parameter, a delay parameter.
30. (original) The method of claim 28, wherein said security parameter comprises at least one of an encryption parameter, an authentication parameter and a filtering parameter.
31. (original) The method of claim 21, wherein said VPN supports at least one application having associated with it at least one of respective QoS requirements and security requirements, said QoS and security requirements having corresponding billing rates.
32. (original) The method of claim 31, wherein said application comprises at least one of an interactive gaming application and a conferencing application.
33. (original) The method of claim 27, wherein said VPN has associated with it a respective name;

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said user being able to perform at least one of a VPN create, VPN modify, VPN store and VPN delete command using said VPN name;

said VPN modify command allows said user to modify at least one of said VPN's topology, QoS parameter, and security parameter.

34. (original) The method of claim 33, wherein said VPN is retrieved from storage, activated and deactivated using a corresponding VPN name.

35. (original) An application programming interface (API) for use by an application to perform VPN management activities, said API performing the functions of:

receiving, from an authorized user, a request to activate, deactivate, join, leave or modify a parameter of a virtual private network (VPN);

retrieving a profile associated with said user request; and

providing configuration parameters to at least one network element in response to said user request or said profile associated with said user request, said network element adapted by said configuration parameter to satisfy said parameter of said VPN.

36. (original) The API of claim 35, wherein said application executes on an enhanced application portal.